## 7th Annual Epidemiology, Biostatistics and Clinical Research Methods Summer Session June 20-24, 2005

## Using VA Databases For Research: Focus on Cancer

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#### Welcome

- Course faculty
- Learning objectives
- Course outline
- Recommended readings
- Bibliography
- Housekeeping details



### **Learning Objectives**

- Know about different types of VA data & information systems
- Become aware of potential uses of VA data for research
- Understand limitations of VA information systems data for research, especially in cancer
- Become aware of past and potential research applications in cancer
- Know about resources to support research use of VA data



#### This Course covers...

#### Day 1: Introduction to VA Data & Research Uses

- Overview VA Information Systems & National Databases
- Good Data Practices: Privacy & Security
- VA Inpatient & Outpatient Care Datasets
- Prostate Cancer Example

#### Day 2: Overview of VA Clinical Databases

- VA DSS Clinical National Data Extracts
- VA Pharmacy Data
- Research Examples



#### This Course covers...

- Day 3: Using VA and non-VA Data
  - Medicare Data
  - Cancer Registry Data
  - VA & non-VA Mortality Data Sources
- Day 4: Focus on Cancer Research Applications & Programming Examples
  - Colon Cancer Treatment in VA & Medicare
  - Accessing the VA AAC Databases with Programming Examples



## 7th Annual Epidemiology, Biostatistics and Clinical Research Methods Summer Session June 20-24, 2005

#### Introduction to VA Data



### **Session Objectives**

- Become aware of utility of VA data sources for cancer epidemiology and health services research
- Become aware of the scope and breadth of VA data
- Know about Good Data Practices
- Understand how to use the VA Inpatient & Outpatient datasets for research
- Describe an example of determining cancer prevalence using VA data
- Know where to go for help when using VA data



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## Relevance of VA Data to Cancer Research

- Identifying prevalence and incidence of specific cancers in the VA population
- Rates of screening for any type of cancer
- Stages at diagnosis for any type of cancer
- Rates of treatment vs. non-treatment, where cancer treatment is known to be effective
- Disparities in cancer screening or treatment
- Recurrence rates, survival rates, complication rates, and other outcome measures
- Disease management in cancer care
- Cancer care treatment patterns across systems of care
- Clinical trials in cancer treatment involving VA patients
- Implementation of best practices in cancer care



## Research Examples: Wilt et al., *Med Care* 1999

- Utilization and mortality outcomes of radical prostatectomy (RP)
- Used VA Inpatient & Outpatient Medical SAS Datasets from 1986 thru 1996 to identify
  - Patient cohort with RP
  - Complications
  - Comorbid conditions
- Used VA BIRLS Death File to obtain vital status
- Utilization of RP more than doubled between 1986 and 1996
- Tremendous geographic variations
  - Utilization rates lower in Eastern states
  - Variations decreased over time
- 30-day mortality decreased over time



## Research Examples: Fisher et al., *AJG* 2003

- Effect of follow-up colonoscopy on mortality
- New colorectal cancer cases during 1995 1996
- Used VA Medical SAS Inpatient Datasets for:
  - Patient identification
  - Comorbidity status using Deyo-Charlson method
- Used VA Medical SAS Inpatient and Outpatient Datasets
  - Colonoscopies
  - Outpatient visits
  - Chemotherapy or radiation therapy
- BIRLS Death File to obtain vital status
- Risk of death decreased by 43% with follow-up colonoscopy



### Research Examples: Rabeneck et al., *AJG* 2004

- Hospital surgical volume and long-term survival
- Used VA Medical SAS Inpatient Datasets
  - Patient cohort surgical resection in 1991 2000
  - Comorbidity status using Deyo-Charlson method
  - Surgical volume
- Used VA Medical SAS Inpatient and Outpatient Datasets
  - Demographic data
  - Chemotherapy & radiation therapy
- BIRLS Death File to obtain vital status
- High surgical volume assoc. w/increased 5-yr survival
  - 7% for colon cancer
  - 11% for rectal cancer



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# Department of Veterans Affairs (VA)

- Provides federal benefits to veterans and dependents
  - Health Care (Veterans Health Administration)
  - Benefits (Veterans Benefits Administration)
  - Cemeteries (National Cemetery System)
- FY2005 estimated budget = \$67 billion



# Veterans Health Administration (VHA)

#### In 2005:

- 21 Networks
- 158 hospitals
- 132 nursing homes
- 42 domiciliaries
- 854 outpatient clinics
- 88 comprehensive home-care programs

Source: Facts About the Department of Veterans Affairs, at <a href="http://www1.va.gov/opa/fact/vafacts.html">http://www1.va.gov/opa/fact/vafacts.html</a>, accessed April 1, 2005.



# VA Research & Development Service

- Biomedical Laboratory R&D Service
- Clinical Science R&D Service
- Health Services R&D Service
- Rehabilitation R&D Service



## Who Can Use VA Data For Research?

- Employment status
- Purpose
- Ownership/Management/Authorizations
- Physical Location/Format
- Sensitivity of the information



#### Sources of VA Data Available

- Administrative/operations data
- Electronic medical record information
- Patient-derived data



#### **Levels of Data**

- Local Facility Level
  - Information may reside only at local facility
- 🔽 Corporate (National) Level
  - Mandate for some local data may include uploading a standardized component to a central location
- VA Network Level: VISN Warehouses
  - Above local level, below corporate level



# Corporate Databases Monograph

Produced by OI National Data Systems

http://www.virec.res earch.med.va.gov VHA Corporate Databases Monograph

2004

March 2004



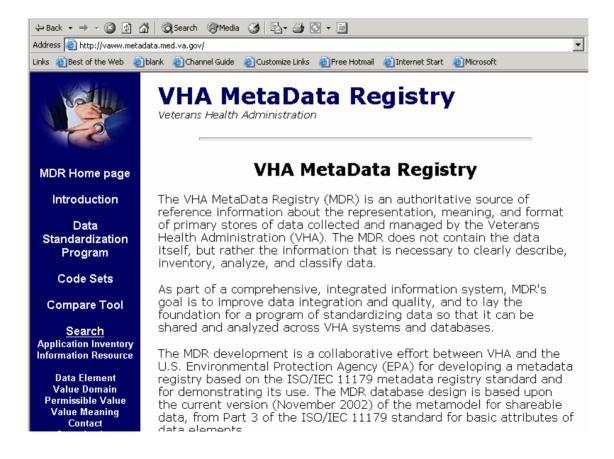
VHA Office of Information Health Data and Informatics National Data Systems (NDS)

1



### **Search Meta-Data Registry**

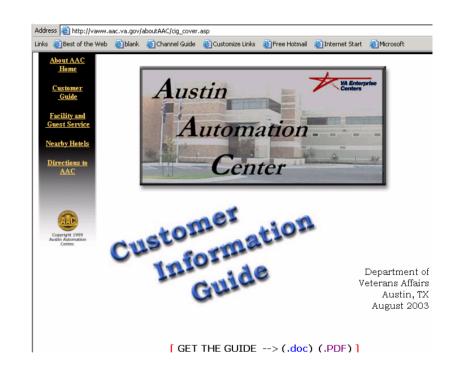
http://vaww.metadata.med.va.gov





## AAC Customer Information Guide

- http://vaww.aac.va. gov/aboutAAC/cig\_ cover.asp
- Applications, tools, utilities, & online facilities
- Contact information for stewards & programmers





## Separate Presentations During The Course

- VA Inpatient & Outpatient Data
- VA DSS Clinical National Data Extracts
- VA Pharmacy Data
- VA Linked Medicare Data
- VA & non-VA Mortality Data
- VA & NCI Tumor Registry Data



## **Brief Remarks on Some Other VA Databases of Interest**

- Geographic Data
- Economic Data from HERC
- VA Enrollment Data
- Survey of Veterans
- Large Health Survey
- OQP Survey of Health Experiences of Patients
- Health Data Repository



## Planning Systems Support Group Geographic & Facility Data

- VHA Office within ADUSH
- Maintains VA Site Tracking (VAST) Data
  - Some organizational data on all VHA facilities
  - No yearly files
  - Updated info with change histories
  - Crosswalk file useful to track changes in facility
     IDs
- Geographic Information System (GIS) data on VA facilities, time-to-travel data, and ZIP Code centroid data



### **HERC Average Cost Datasets**

- Acute hospitalizations, non-acute hospitalizations, long term care stays, outpatient care
- Housed at AAC
- Contact HERC to request ACRS Functional Task Code

See <a href="http://www.herc.research.med.va.gov">http://www.herc.research.med.va.gov</a>



#### **Enrollment Database**

- Health Eligibility Center (HEC)
  - Form 10-10EZ, Application For Health Benefits:
     <a href="https://www.1010ez.med.va.gov/sec/vha/1010ez/F">https://www.1010ez.med.va.gov/sec/vha/1010ez/F</a>
     orm/vha-10-10ez.pdf
  - Scrambled SSN, Sex, Age, Marital Status, Veterans'
     Addresses, Phone Numbers, SC Percent, SC (Yes/No), POW
  - Race/ethnicity new items in Form 10-10EZ
  - Eligibility Status (e.g., cancelled, declined, deceased, not eligible) and Priority.
- NED (National Enrollment Database) will be replaced by EDB (Enrollment Database)
- SAS datasets at AAC
  - Extract of NED



### **Survey of Veterans**

- VA Office of Policy, Planning, & Preparedness
- Periodic national phone surveys of all veterans
  - 1979, 1983, 1987, 1992, 2001
- Demographics, socio-economic status
- Military service experience, VA benefits
- Health status, insurance, utilization
- 2001 methods and results at <a href="http://www.va.gov/vetdata/SurveyResults/index.htm">http://www.va.gov/vetdata/SurveyResults/index.htm</a>
- SAS files at AAC with access via ACRS



# Survey of the Health Experiences of Patients (SHEP)

- Office of Quality & Performance
- Mail surveys
- Ambulatory Care & Inpatient Care SHEP (monthly)
- Veteran Satisfaction Survey for Prosthetics/ Sensory Aids (every other year)
- See details & data request procedures at http://vaww.oqp.med.va.gov/



# Financial & Clinical Data Mart (FCDM)

- Integrated patient, clinical, & financial data at facility & VISN level
- VISN Support Services Center (VSSC), Assistant Deputy Under Secretary for Health (ADUSH)
- Accessible via Intranet
- ProClarity Software
  - Data cubes → Graphs, reports, drill-down
- See http://klfmenu.med.va.gov

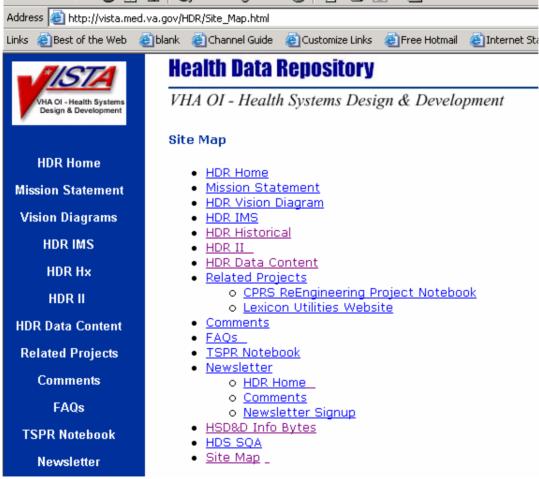


### **Health Data Repository**

- National clinical data warehouse
- VHA OI Health Systems Design & Development
- Purposes:
  - Primary source for the legal medical record
  - 2. Reports based on the entire clinical holdings of VHA
  - 3. Platform for a re-engineered CPRS
  - 4. Platform for patient self-access to medical record
  - Part of standardization between & among Department of Defense, Indian Health Services, other government and private industry clinical databases
- VistA data 1999 & after by July 2005



# See The Future Unfold at http://vista.med.va.gov/HDR





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### **Privacy & Security Issues**

- VA Upholds Patients' Rights
- Policy and procedures ensure ADP Security
- Privacy Act and Data Security Statement
- Medical Information Security Service (MISS)
  - -(193C)
  - Phone: (304) 262-7300
- VHA Directive 6210, March 7, 2000
  - "Automated Information Systems (AIS) Security"



#### Research Use of VA Data

- Use or disclosure of VHA patient data is governed by a series of laws and regulations—not just HIPAA regulations
- Researchers' use generally must have IRB approval—with a few exceptions such as work preparatory to research
- Research requests for real SSN go through VACO CRADO
  - Real SSN is just one of many PHI to protect



#### What Is HIPAA?

- Health Insurance Portability & Accountability Act of 1996 (PL 104-191)
  - Enacted August 21, 1996
- Intent: To assure health insurance portability, reduce healthcare fraud and abuse, guarantee security and privacy of health information, and enforce standards for health information



### HIPAA – cont'd

### Privacy Rule

- Compliance date April 14, 2003
- Implementation ongoing

### Security Rule

Effective date: April 21, 2003

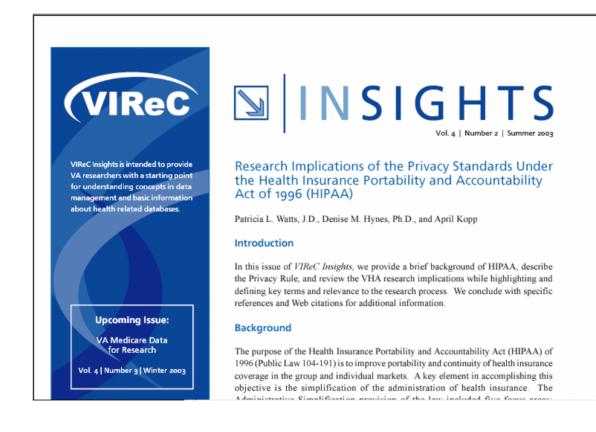
- Compliance date: April 21, 2005

#### VHA Activities: HIPAA PMO/OCIS

Gap analysis; implementation for Security Rule



# Research Implications of HIPAA





### **Additional Information**

- On HIPAA Administrative Simplification and DHHS Proposed Rules:
  - http://aspe.hhs.gov/admnsimp and http://www.cms.hhs.gov/hipaa/hipaa2/default.asp
- VHA HIPAA Effort: HIPAA PMO http://vaww1.va.gov/cbo/hipaa.html
- Or contact HIPAA PMO at 202-254-0385

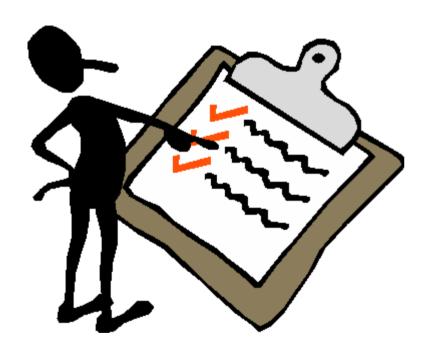


## **HIPAA Data Security Standards**

- HIPAA security standards apply to <u>all</u> health information pertaining to an individual that is electronically maintained or electronically transmitted
- Must protect against unauthorized access and misuse of electronic health information



### What Is Required?



- Protect data
  - at home facility
  - in transit
  - at recipient facility
- Using safeguards
  - administrative
  - physical
  - technical



# Home Facility: Administrative Safeguards

### Establish a Data Use Policy:

- Who's in charge of data security?
- How are users granted access?
- How is access limited to authorized users?
- How is authorization terminated?
- What do you do if security fails?



# Home Facility: Physical Safeguards

- Where data are stored (room/server)
- When data are displayed on monitor
- When data are on portable media (laptops/CDs)



# Home Facility: Technical Safeguards

- Control access
  - passwords
  - encryption
  - authentication



## Security of Data In Transit

#### Administrative

- Virtual Private Network
- Privacy warning labels

### Physical

Courier with ground tracking

#### Technical

- Zip/Encrypt
- Password protection
- Authentication software



# Security of Data At Recipient Facility

- Assurances regarding:
  - Administrative Safeguards
  - Physical Safeguards
  - Technical Safeguards
- Data Use Agreement (DUA)
  - Not currently required for research if within the VHA but may still be encountered from some offices
  - If not within VHA...



# Get To Know Local Data Security Resources

- Privacy Officer
- Information Security Officer

Information Resources Management (IRM)
Office



### **National Resources**

- Office of Cyber Security
  - http://infosec.va.gov/main/index.asp
- HIPAA Administrative Simplification and DHHS Proposed Rules
  - http://aspe.hhs.gov/admnsimp and
     http://www.cms.hhs.gov/hipaa/hipaa2/default.asp
- OI HIPAA Effort: http://vaww.va.gov/hipaa
- Stephania Putt, OI HIPAA Coordinator
  - **-** (727) 320-1839



## Questions?



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# Inpatient and Outpatient Data Sets



### **Session Objectives**

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# VA Inpatient and Outpatient Medical SAS Datasets

- National VHA health care delivery data
- Administrative/workload purposes
- SAS datasets housed on mainframe computer at Austin Automation Center (AAC)
- Essential for examining VA health services use



## **Inpatient Datasets**



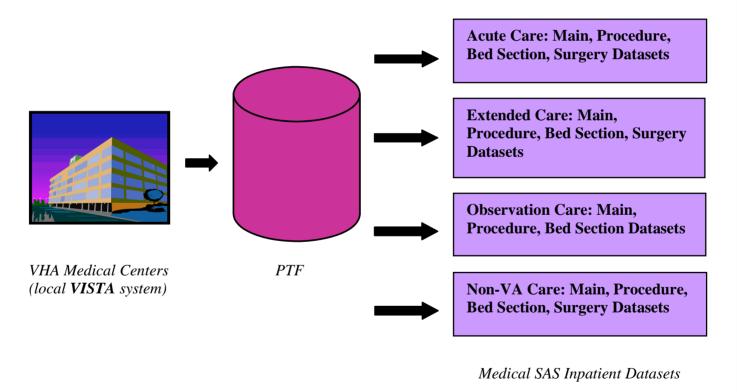
### **Inpatient Datasets**

- Medical SAS Inpatient Datasets
  - Often referred to as the PTF or Patient Treatment Files
  - Note: PTF in VISTA is not the same
- Record created at Discharge
- Admission may be previous year
- Types of stays:
  - Acute Care
  - Extended Care
  - Observation Care
  - Non-VA Care



### **Inpatient Data Flow**

Data Flow from the VHA Medical Centers to the Austin Automation Center (AAC) to the Medical SAS Inpatient Datasets





# **Inpatient SAS Datasets: For Each Type of Care**

File	Reference	Dates
Main	PM	1970 - present
Bedsection	PB	1984 – present
Procedure	PP	1988 – present
Surgery	PS	1984 - present



# Data Elements In All Inpatient Datasets

- Patient identifier (SCRSSN)
- Facility & VISN identifiers of where care was provided
- Admission & Discharge Date & Time
- Discharge Type (e.g., Regular, Death-Autopsy, Non-bed Care)
- Principal Diagnosis (DXPRIME) for admission



## **Special Topic: SCRSSN**

- Scrambled Social Security Number
- Same algorithm used for all Inpatient and Outpatient Care SAS Datasets
- Link patient over time and across datasets
- Real SSN available with authorization



## **Special Topic: Diagnosis**

- DXPRIME = Principal Diagnosis
  - Condition determined to be chiefly responsible for the <u>admission</u>
- DXLSF = Primary Diagnosis
  - Diagnosis responsible for the <u>major part</u> of the <u>full stay</u>



## **Inpatient Main Dataset**

Dataset	Reference	Dates
Main	PM	1970 - present
Bedsection	PB	1984 – present
Procedure	PP	1988 – present
Surgery	PS	1984 - present



# Inpatient Main Dataset Overview

- One record per discharge
- Diagnostic codes in ICD-9
  - Principal Diagnosis: DXPRIME
  - Secondary Diagnoses: DXF2 DXF10
  - Additional diagnoses in Bedsection Dataset
- Patient demographics
  - Age, sex, race, DOB, DOD, state and ZIP code of residence
- Care characteristics
  - LOS, discharge disposition, DRG
- Service experiences
  - AOR, Combat, POS, POW, RAD, SCI, SCPER



### **Special Topic: Race**

- New standard implemented in May 2003
- Compliant with 1997 OMB Directive
- New standard:
  - Self-identification is preferred
  - Multiple race reporting allowed
  - Race and ethnicity separately collected
- Since FY2003, Main Datasets include:
  - RACE: old format (six categories)
  - RACE1 RACE6: race with collection method
  - ETHNIC: ethnicity with collection method



## **Inpatient Bedsection Dataset**

Dataset	Reference	Dates
Main	PM	1970 - present
Bedsection	PB	1984 – present
Procedure	PP	1988 – present
Surgery	PS	1984 - present



# **Bedsection Dataset Overview**

- Record = Bedsection stay
- Bedsection = treating specialty of physician, not physical location
- Maximum of 25 bedsection records per inpatient stay

## **Bedsections – Treating Specialties**

Cardiology	Cardiac Step- Down	Medical ICU
Surgery (Gen)	Surgical ICU	Surgical Obs
Spinal Cord Injury	SCI Observation	Orthopedic

See full listing in VIReC Research User Guide: FY2002 VHA Medical SAS® Inpatient Datasets



### Inpatient <u>Bedsection</u> Dataset Selected Data Elements

- Date & time of transfer into & out of Bedsection
  - Use BSINDAY & BSOUTDAY to compute acute care LOS
- Physical Location Code (PLBED)
- Bedsection Diagnosis (max. 5) & Bedsection DRG



### Inpatient <u>Bedsection</u> Dataset Selected Data Elements

#### Service-Connected Treatment

- Is the condition being addressed in the bedsection a service-connected one?
- Not the same as a veteran's service-connected eligibility for mandatory care (e.g., Agent Orange exposure)



## **Inpatient Procedure Dataset**

Dataset	Reference	Dates
Main	PM	1970 - present
Bedsection	PB	1984 – present
Procedure	PP	1988 – present
Surgery	PS	1984 - present



# Inpatient <u>Procedure</u> Dataset Selected Data Elements

- Procedure, coded in ICD-9-CM (vs. CPT for outpatient procedures)
- Dialysis type & number of dialysis treatments
- Physician's specialty (bedsection)



## **Inpatient Surgery Dataset**

Dataset	Reference	Dates
Main	PM	1970 - present
Bedsection	PB	1984 – present
Procedure	PP	1988 – present
Surgery	PS	1984 - present

# Special Topic: Procedures vs. Surgeries

- Surgery = Procedure performed in main or specialized operating room
- "Procedure" in Facility A may = "Surgery" in Facility B
  - Depends on where performed
- Look at both datasets



## **Outpatient Datasets**



### **Outpatient Datasets**

Referred to as OPC or NPCD (National Patient Care Database)

4 datasets: Visit

**Procedure** 

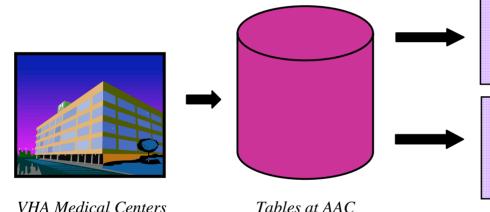
Diagnosis

**Event** 



### **Outpatient Data Flow**

Data Flow from the VHA Medical Centers to the Austin Automation Center (AAC) to the Medical SAS Outpatient Datasets



(relational database)

Visit Dataset – Clinic stop codes and patient demographics for all encounters

Event Dataset – Procedure codes, diagnosis codes and patient demographics for one encounter at one clinic

Medical SAS Outpatient Datasets



(local **VISTA** system)

## **Outpatient Datasets**

File	Reference	Dates	
Visit	SF	1980 - present	
Event	SE	1998 – present	
Diagnosis	SG	1997 – 2001	
Procedure	SC	1990 - 2001	



# Data Elements Common In Outpatient Datasets

- Patient identifier (SCRSSN)
- Patient demographics (Age, date of birth, race, marital status)
- Patient Zip Code, County, & State of Residence
- Date of encounter



#### **Common Data Elements**

- Means Test Indicator (MEANS)
- Patient eligibility code (ELIG)
  - ELIG < 11 identifies a veteran</li>
- Agent Orange exposure claimed (AOIND/AGOLOC)
- Radiation exposure claimed (RAD)
  - Visit: 4 categories
  - Event: exposed vs. not exposed



## **Outpatient Visit Dataset**

Record = One day's encounters for a patient at a clinic



# Outpatient Visit Dataset Selected Data Elements

- One record per visit
- Up to 15 clinic stops per visit
- No diagnosis or procedure information
- Race:
  - RACE
  - RACE1 RACE7 from FY2004
- Insurance and religious preference only in Visit file



### **Outpatient Event Dataset**

- Record = Ambulatory encounter
  - Coded as Primary Clinic Stop, which is officially referred to as DSS Identifier

No limit on number of encounters per day



## Outpatient <u>Event</u> Dataset Selected Data Elements

- Record = Ambulatory encounter or clinic stop
- No limit on number of clinic stops per day
- Up to 10 diagnoses in ICD-9 codes (DXLSF, DXF2 DXF10) per record
- Until FY2003: Up to 15 procedures in CPT4 codes (CPT1 – CPT15), no repeats allowed
- Since FY2004: Up to 20 CPT4 codes with repetition allowed
- Encounter ID to link the Event dataset with HERC Outpatient Average Cost Dataset since FY2003
- Appointment type only in Event Dataset



## Strengths & Limitations of Medical SAS Datasets



## **Strengths**

- Centralized data source
- Large groups of patients
- Given good coding, reflective of general clinical status
- Unique identifier (SCRSSN) allows linking records across files/years



### Limitations

- Not all care dimensions
- Retrospective discharge abstracts
- Incentives to coding
- Limitations of ICD-9-CM coding



## Some Frequently Asked Questions (FAQs)

- Question:
- How reliable is the race variable in the Medical SAS Datasets?

- Answer:
- Reliable (~92% agreement with Medicare race in identifying African-American race).
- FY2003 data: 90% missing. Consider obtaining race from other sources



### **FAQs**

- Question:
- How reliable is ICD-9 coding in Medical SAS Datasets?

- Answer:
- Varies: 54% (stroke) 98% (cardiac)
- Overcoding: hypertension (31%) diabetes (19%)
   http://www.measurementexperts.org/learn/practice/ab\_icd-9\_pf.asp

### **FAQs**

- Question:
- Why do I need to use DXPRIME instead of DXLSF?
- Answer:
- DXPRIME is the condition determined to be chiefly responsible for the <u>admission</u> & differs from the DXLSF



### **FAQs**

- Question:
- How do I compute acute length of stay (LS)?
- Answer:
- LS in Main may include extended care stay
- Use Bedsection data (BS in and out day) to compute acute LOS
- HERC inpatient Average Cost Datasets documentation has details (pp. 29 - 32)



## **Data Quality Information**

- Quality assessments performed by the Office of Inspector General, the Medical Care Cost Recovery program, and special workgroups
- Data Quality, Information Assurance, Office of Information (http://vaww.vhaco.va.gov/dataquality/ default.htm).



# Data Quality Information (cont'd)

- VHA Coding Council (http://vaww1.va.gov/health/him/VHACC/VA \_HIM\_P/coding\_council1.htm) - VHA Coding Handbook
- HSRData e-mail listserv



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# Prostate Cancer Prevalence Example

- Prevalence of prostate cancer in FY2003
  - VHA Users?
  - Veterans
- Demographics
  - Age
  - Race
  - Region
  - Insurance



## Prevalence of Prostate Cancer: Linking Datasets

- Can be linked forward or backward in time
  - Utilization
  - Treatment
  - Comorbidities
  - Complications
- Other databases
  - Pharmacy
  - DSS LAR (e.g., for PSA Test Results)
  - Medicare Data



## Prevalence of Prostate Cancer: Datasets & Variables

- FY2003 Inpatient and Outpatient Datasets
  - Inpatient datasets
    - Acute care only
  - Outpatient datasets
- Diagnostic codes only
- Demographic information
  - Age and race, both in- and outpatient datasets
  - Insurance, only in Outpatient Visit dataset
  - Region, constructed using STA6A and STA5A and PSSG files



### **Prevalence of Prostate Cancer**

(All Males 40 and Older, FY2003 - continued)

	Unweighted Frequency (# cases)		David David Julian	Rate per 100,000	
	Primary Diagnosis	All Diagnoses	Base Population	Primary Diagnosis	All Diagnoses
Total	113,948	191,513	4,474,394	2,546.67	4,280.20
Insurance Status					
No ins/self-pay	45,445	69,903	2,275,112	1,997.48	3,072.51
Medicare	53,566	96,495	1,489,789	3,595.54	6,477.09
Medicaid	192	234	9,170	2,093.78	2,551.80
Private Ins/HMO	14,177	24,053	664,958	2,132.01	3,617.22
Other Insurance	549	775	33,763	1,626.04	2,295.41
Unknown	19	53	1,602	1,186.02	3,308.36
Region					
Eastern	19,802	37,175	760,864	2,602.57	4,885.89
Central	22,637	40,704	997,702	2,268.91	4,079.78
Southern	47,199	77,210	1,820,440	2,592.72	4,241.28
Western	24,310	36,424	895,388	2,715.02	4,067.96



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(All Males 40 and Older, FY2003)

	Unweighted Frequency (# cases)		Dana Danulation	Rate per 100,000	
	Primary Diagnosis	All Diagnoses	Base Population	Primary Diagnosis	All Diagnoses
Total	113,948	191,513	4,474,394	2,546.67	4,280.20
Age					
40 - 44	142	191	203,382	69.82	93.91
45 - 54	4,511	5,606	855,506	527.29	655.28
55 - 64	18,074	24,060	999,578	1,808.16	2,407.02
65 - 74	41,018	68,947	1,202,705	3,410.48	5,732.66
75 - 84	44,964	83,348	1,085,096	4,143.78	7,681.16
85 +	5,239	9,361	128,127	4,088.91	7,306.03
Race-Ethnicity					
White	80,681	146,862	3,014,012	2,676.86	4,872.64
Black	21,975	28,183	446,750	4,918.86	6,308.45
Hispanic	2,282	3,105	92,705	2,461.57	3,349.33
Other	1,189	1,739	46,985	2,530.59	3,701.18
Unknown	7,821	11,624	873,942	894.91	1,330.07



### **Session Objectives**

- Become aware of utility of VA data sources for cancer epidemiology and health services research
- Become aware of the scope and breadth of VA data
- Know about Good Data Practices
- Understand how to use the VA Inpatient & Outpatient datasets for research
- Describe an example of determining cancer prevalence using VA data
- Know where to go for help when using VA data



## **Obtaining Help Using VA Data**

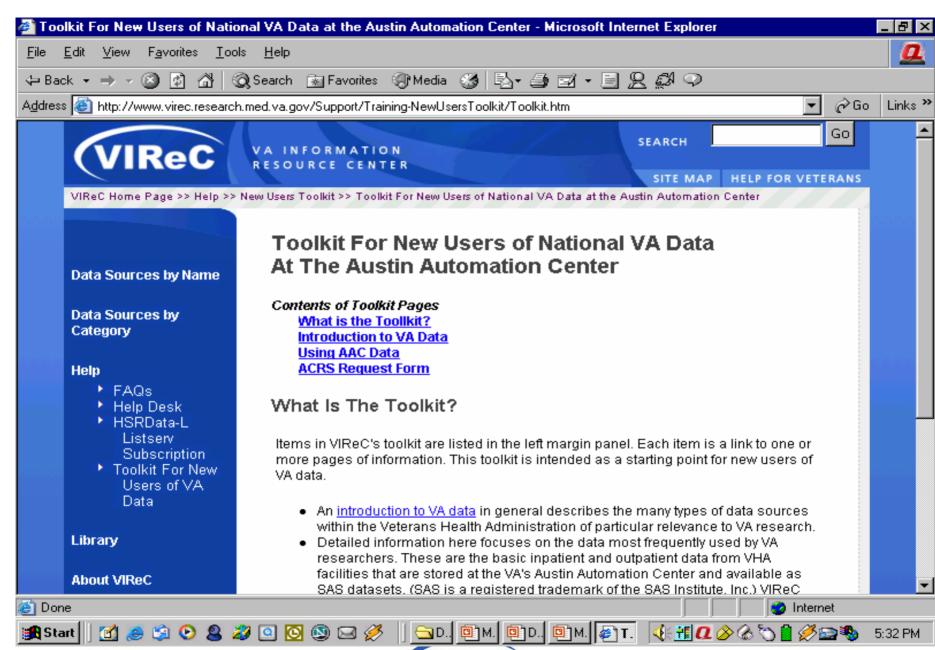
- AAC Help Desk
  - -(512) 326-6780
  - Questions about access to data at AAC
  - Help with file names, SAS programming



## Other Sources of Help

- HSRData Listserv
  - Join at VIReC Web site
  - Discussion among > 200 data stewards, managers, and users
  - Past messages in archive
- VIReC Toolkit for New Data users
  - http://www.virec.research.med.va.gov/Sup port/Training-NewUsersToolkit/Toolkit.htm





## Other Sources for Help

- VHA MetaData Registry
  - Search for data element
  - Database
  - Valid codes
  - Database contact
  - In development and expanding
- http://vaww.metadata.med.va.gov



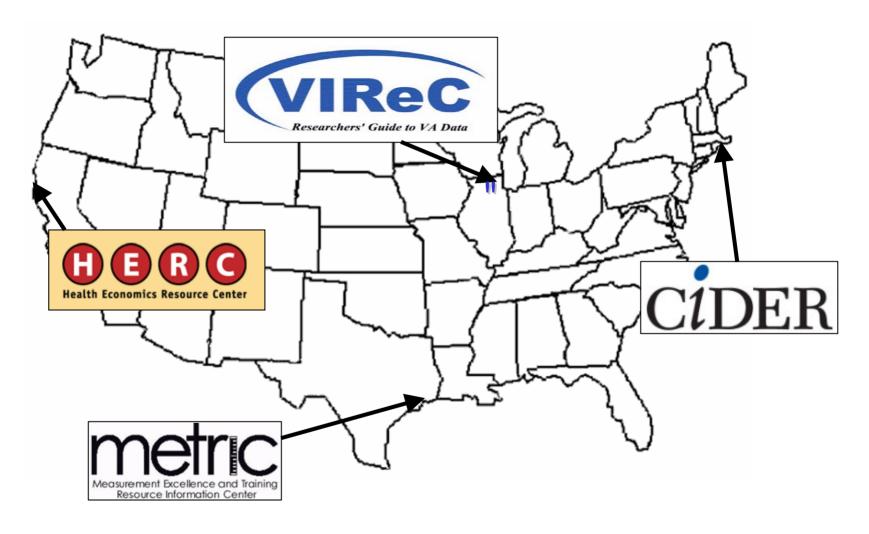
### VIReC Help

#### VIReC Help Desk

- VIReC staff will answer your question and/or direct you to available resources on topics
- http://www.virec.research.med.va.gov
- VIReC@va.gov
- -(708) 202-2413



#### **VA HSR&D Service Resource Centers**





## Questions?

